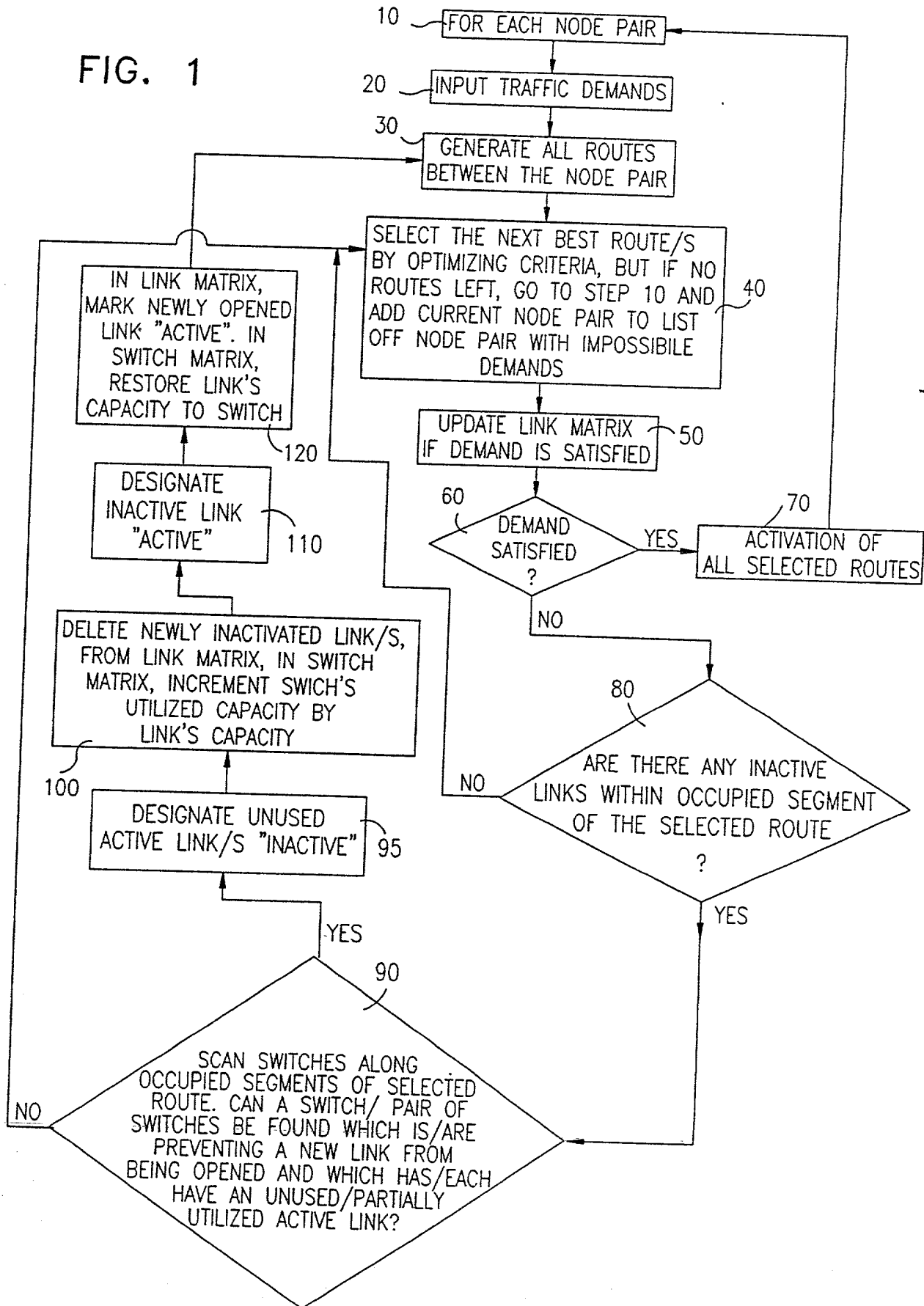


FIG. 1



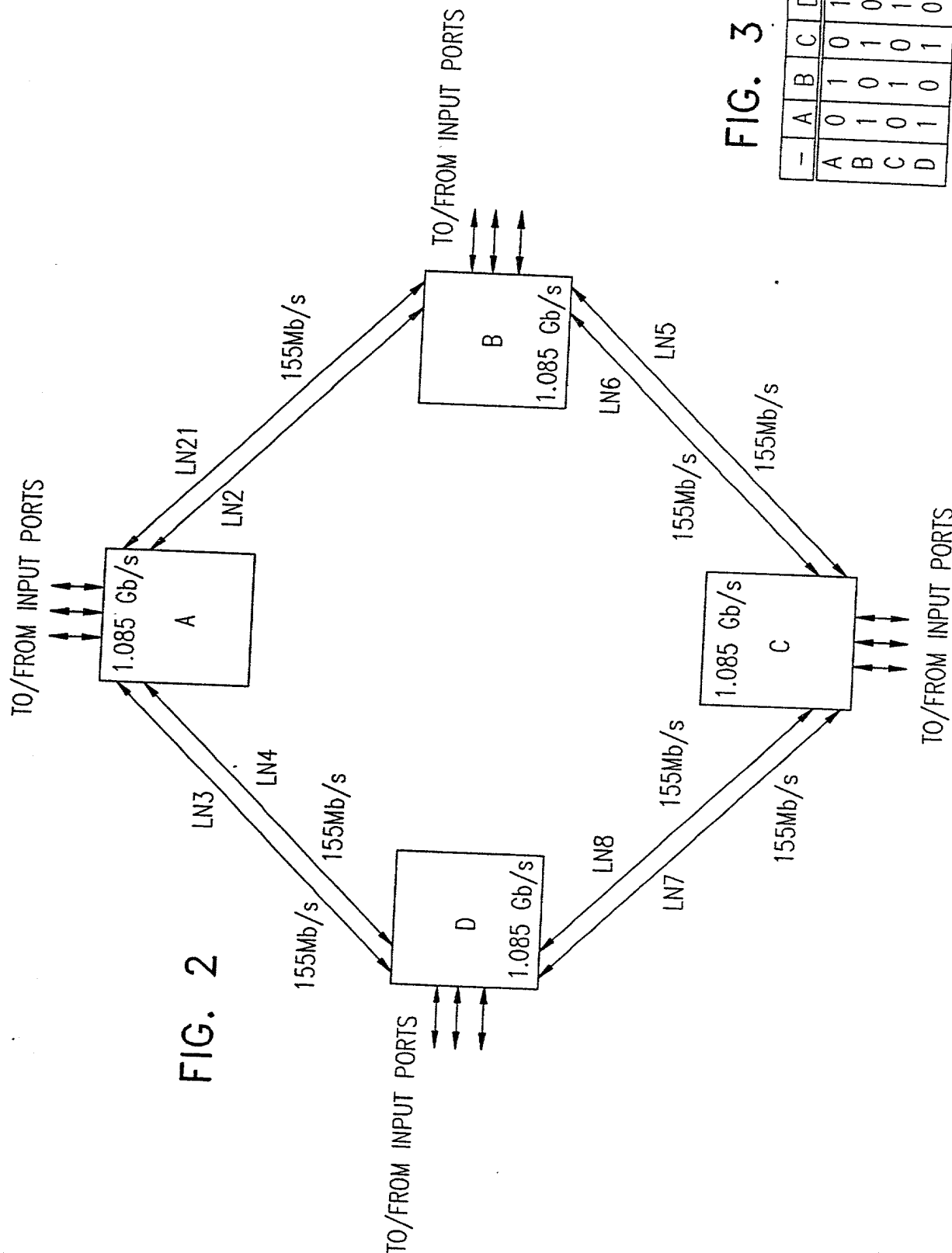


FIG. 4

-	A (Mb/s)	B (Mb/s)	C (Mb/s)	D (Mb/s)
A	0	155	155	155
B	155	0	155	155
C	155	155	0	155
D	155	155	155	0

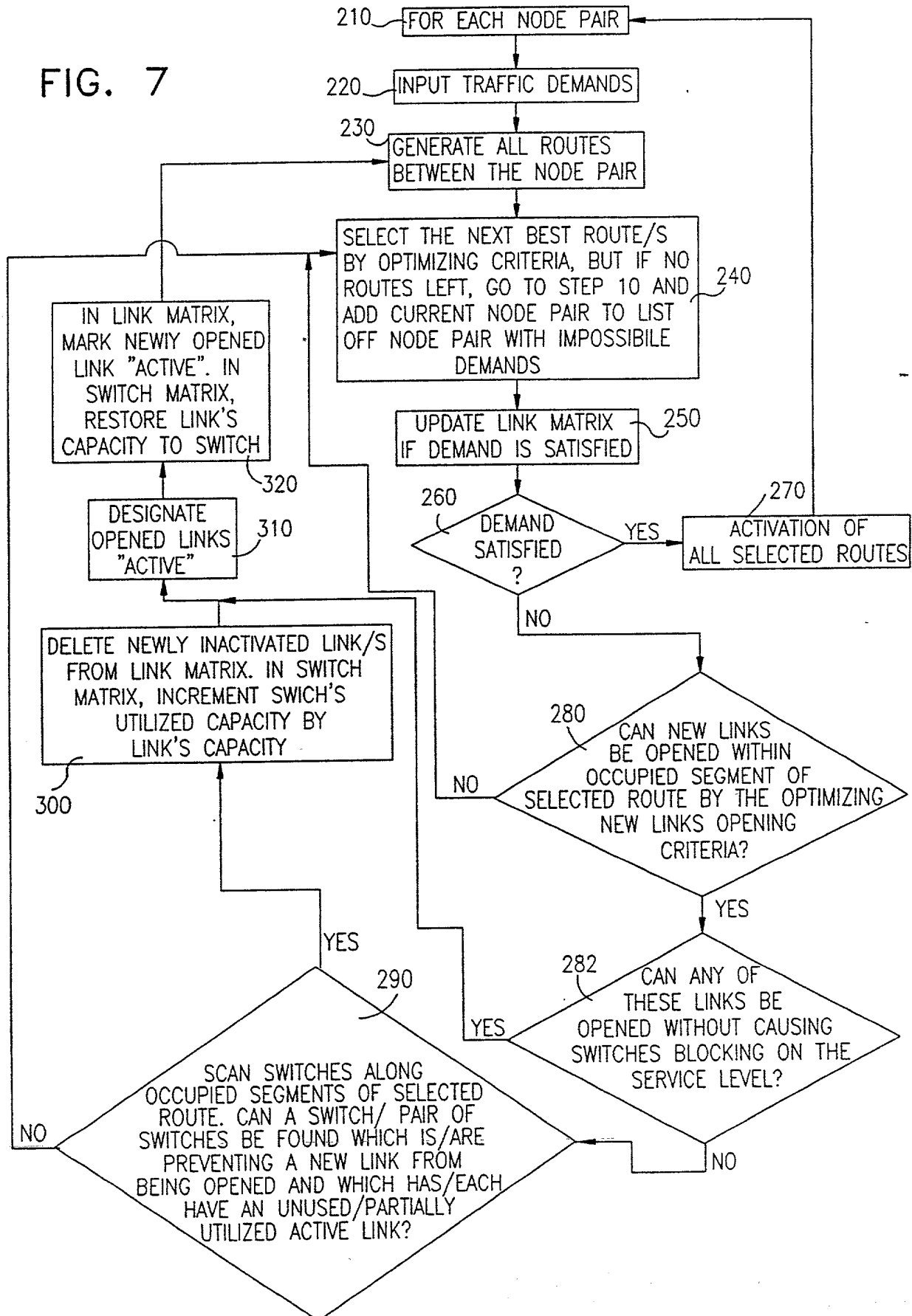
FIG. 5

	1	2	3	4	5	6	7
	Adjacent nodes	Link ID	Link capacity (Mb/s)	Link allocation (Mb/s)	Link Utilization (Mb/s)	Link state	Link priority
210	A, B	LN1	155	155	155	A	1
220		LN2	155	155	155	A	2
230	A, D	LN3	155	155	155	A	1
240		LN4	155	155	155	A	2
250	B, C	LN5	155	155	155	A	1
260		LN6	155	155	155	A	2
270	C, D	LN7	155	155	155	A	1
280		LN8	155	155	155	A	2

FIG. 6

Node ID	Nonblocking capacity (Gb/s)	Utilization (Gb/s)	Unused ≥ 0 Capacity (Gb/s)
A	1.085	1.085	0
B	1.085	1.085	0
C	1.085	1.085	0
D	1.085	1.085	0

FIG. 7



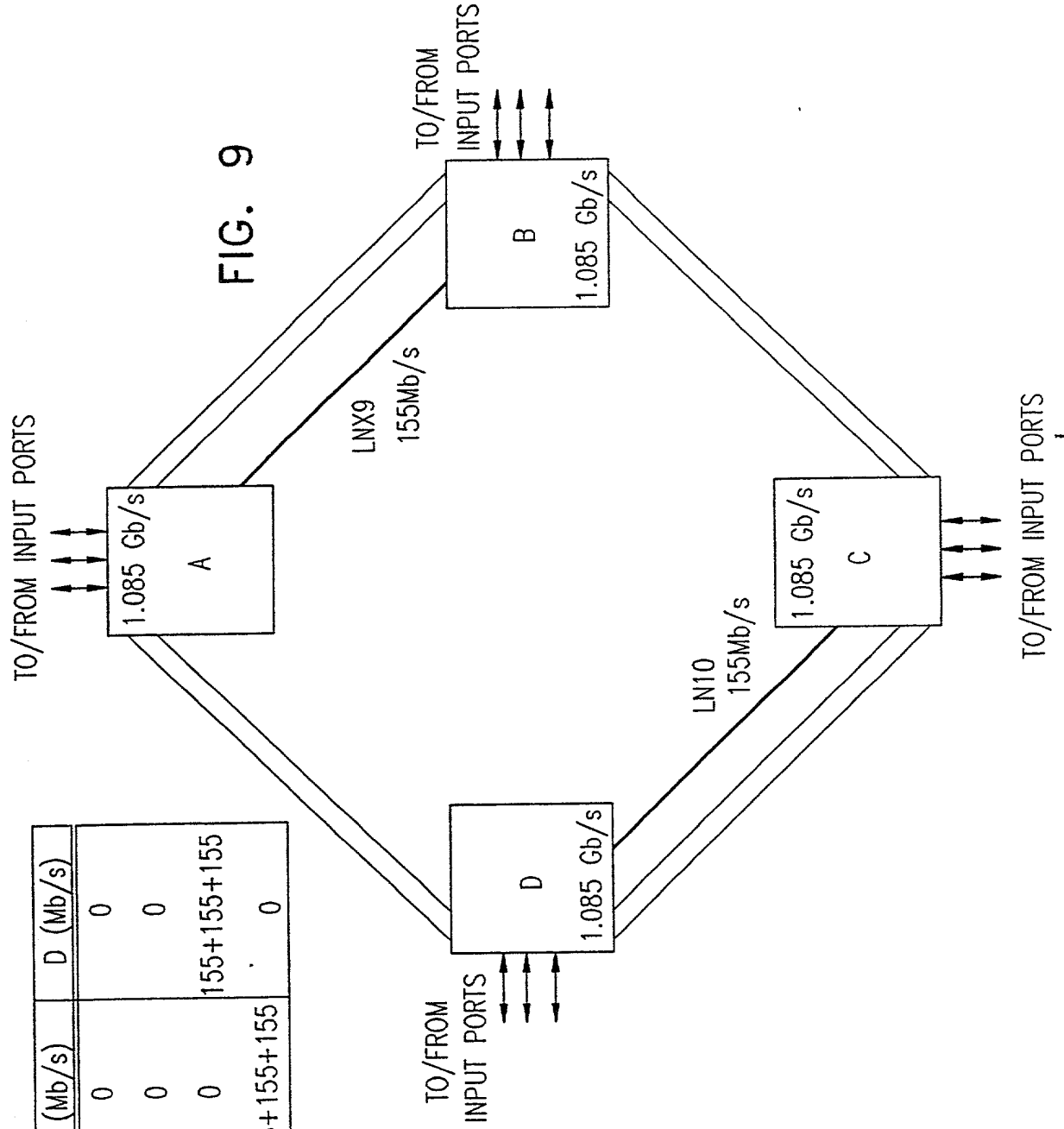


FIG. 9

-	A (Mb/s)	B (Mb/s)	C (Mb/s)	D (Mb/s)
A	0	155+155+155	0	0
B	155+155+155	0	0	0
C	0	0	0	155+155+155
D		0	155+155+155	0

FIG. 8

FIG. 10

	1	2	3	4	5	6	7
	Adjacent nodes	Link ID	Link capacity (Mb/s)	Link allocation (Mb/s)	Link Utilization (Mb/s)	Link state	Link priority
210	A, B	LN1	155	155	0	A	1
220		LN2	155	155	0	A	2
		LNx9	155	0	0	I	3
230	A, D	LN3	155	155	0	A	1
240		LN4	155	155	0	A	2
250	B, C	LN5	155	155	0	A	1
260		LN6	155	155	0	A	2
270	C, D	LN7	155	155	0	A	1
280		LN8	155	155	0	A	2
		LNx10	155	0	0	I	3

FIG. 11

	1	2	3	4	5	6	7
	Adjacent nodes	Link ID	Link capacity (Mb/s)	Link allocation (Mb/s)	Link Utilization (Mb/s)	Link state	Link priority
210	A, B	LN1	155	155	155	A	1
220		LN2	155	155	155	A	2
		LNx9	155	155	155	A	3
230	A, D	LN3	155	155	0	A	1
240		LN4	155	0	0	I	2
250	B, C	LN5	155	155	0	A	1
260		LN6	155	0	0	I	2
270	C, D	LN7	155	155	155	A	1
280		LN8	155	155	155	A	2
		LNx10	155	155	155	A	3

FIG. 12

NODE ID	NONBLOCKING CAPACITY (Gb/s)	utilization (Gb/s)	unused CAPACITY (Gb/s)
A	1.085	0.93	0.15
B	1.085	0.93	0.15
C	1.085	0.93	0.15
D	1.085	0.93	0.15

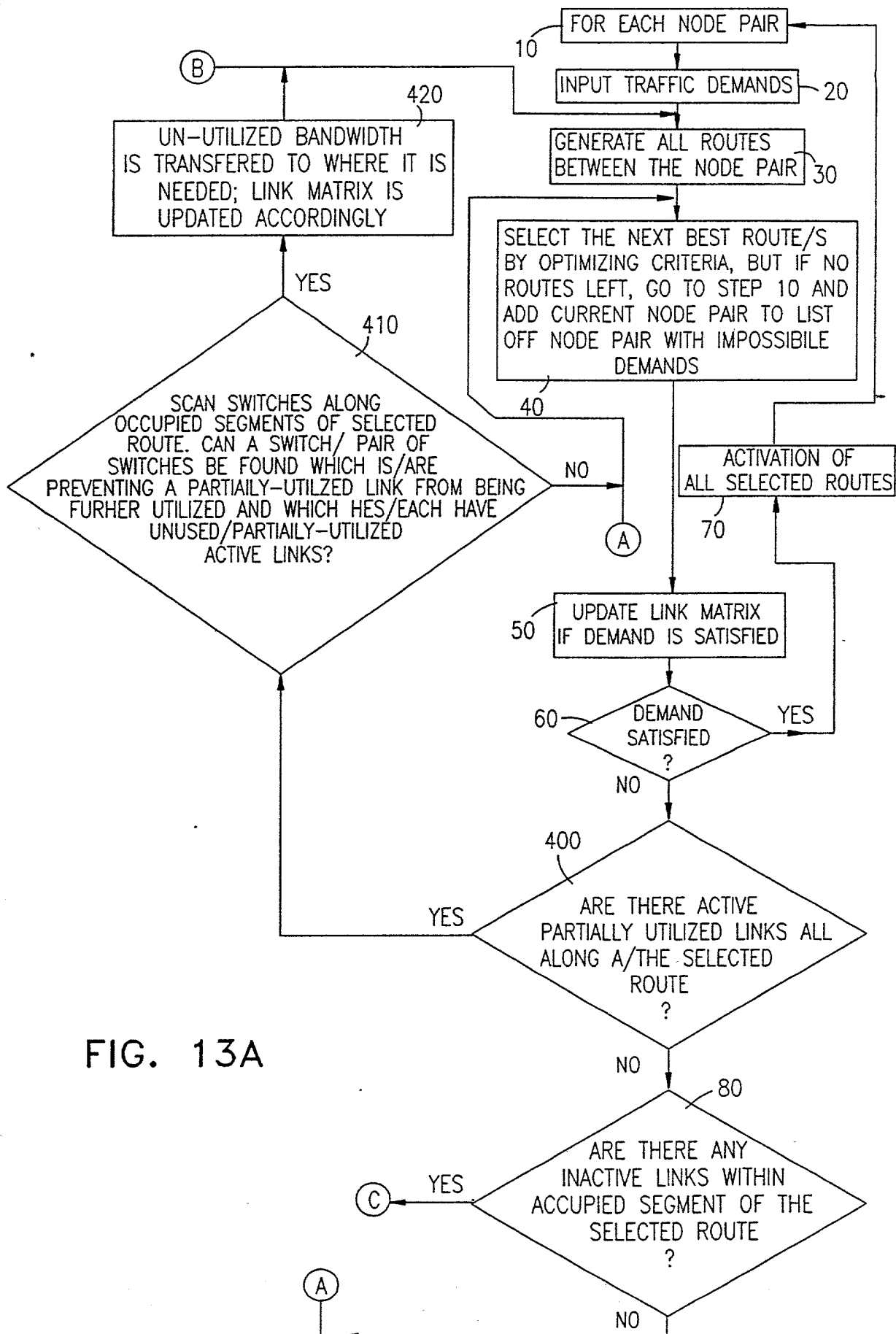


FIG. 13A

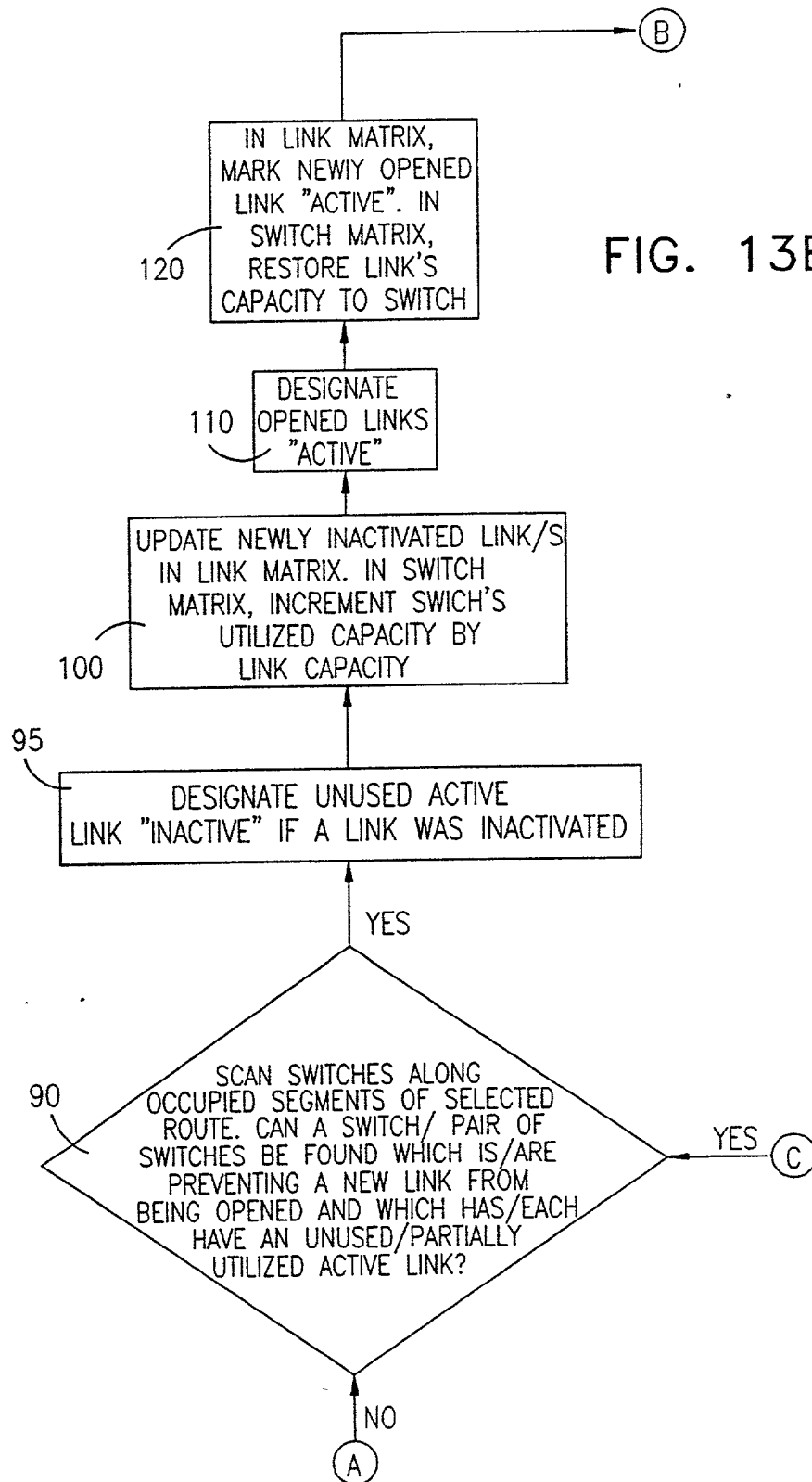


FIG. 14

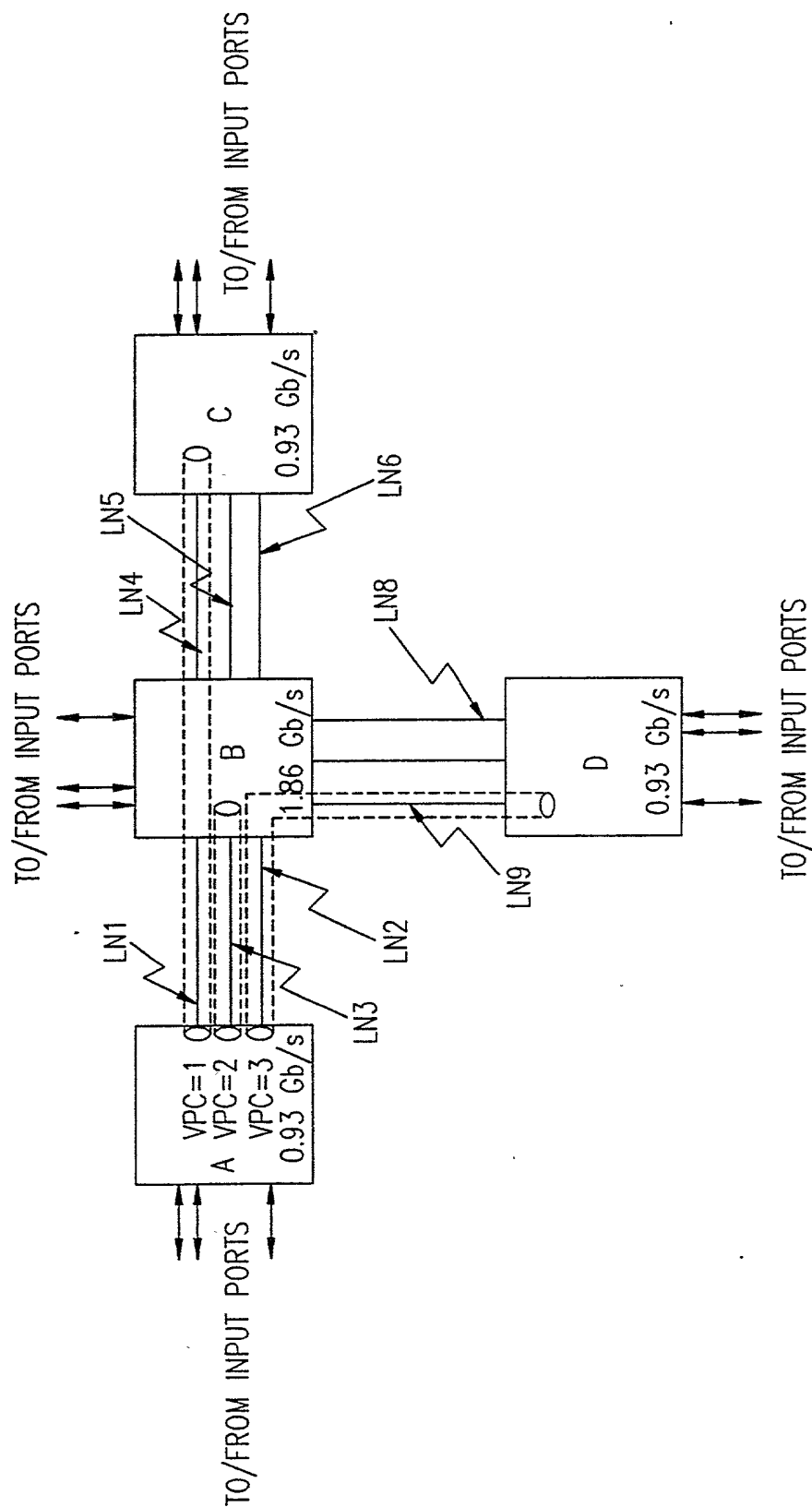


FIG. 15

-	A	B	C	D
A	0	1	0	0
B	1	0	1	1
C	0	1	0	0
D	0	1	0	0

FIG. 16

-	A (Mb/s)	B (Mb/s)	C (Mb/s)	D (Mb/s)
A	0	100	100	100
B	100	0	100	100
C	100	100	0	100
D	100	100	100	0

	1	2	3	4	5	6	7
	Adjacent nodes	Link ID	Link capacity (Mb/s)	Link allocation (Mb/s)	Link Utilization (Mb/s)	Link state	Link priority
300	<i>A, B</i>	LN1	155	VPI=1(155)	100	A	1
310		LN2	155	VPI=2(155)	100	A	2
320		LN3	155	VPI=3(155)	100	A	3
330	<i>D, B</i>	LN4	155	VPI=1(155)	100	A	1
340		LN5	155	VPI=2(155)	100	A	2
350		LN6	155	VPI=3(155)	100	A	3
360	<i>C, B</i>	LN7	155	VPI=1(155)	100	A	1
360		LN8	155	VPI=2(155)	100	A	2
370		LN9	155	VPI=3(155)	100	A	3

FIG. 17

Node ID	Nonblocking Capacity (Gb/s)	Utilized Capacity (Gb/s)	Unused capacity (Gb/s)
A	0.93	0.93	0
B	1.86	1.86	0
C	0.93	0.93	0
D	0.93	0.93	0

FIG. 18

-	A(Mb/s)	B(Mb/s)	C(Mb/s)	D(Mb/s)
A	0	100	0	0
B	100	0	100	100
C	0	100	0	0
D	0	100	0	0

FIG. 19

FIG. 20

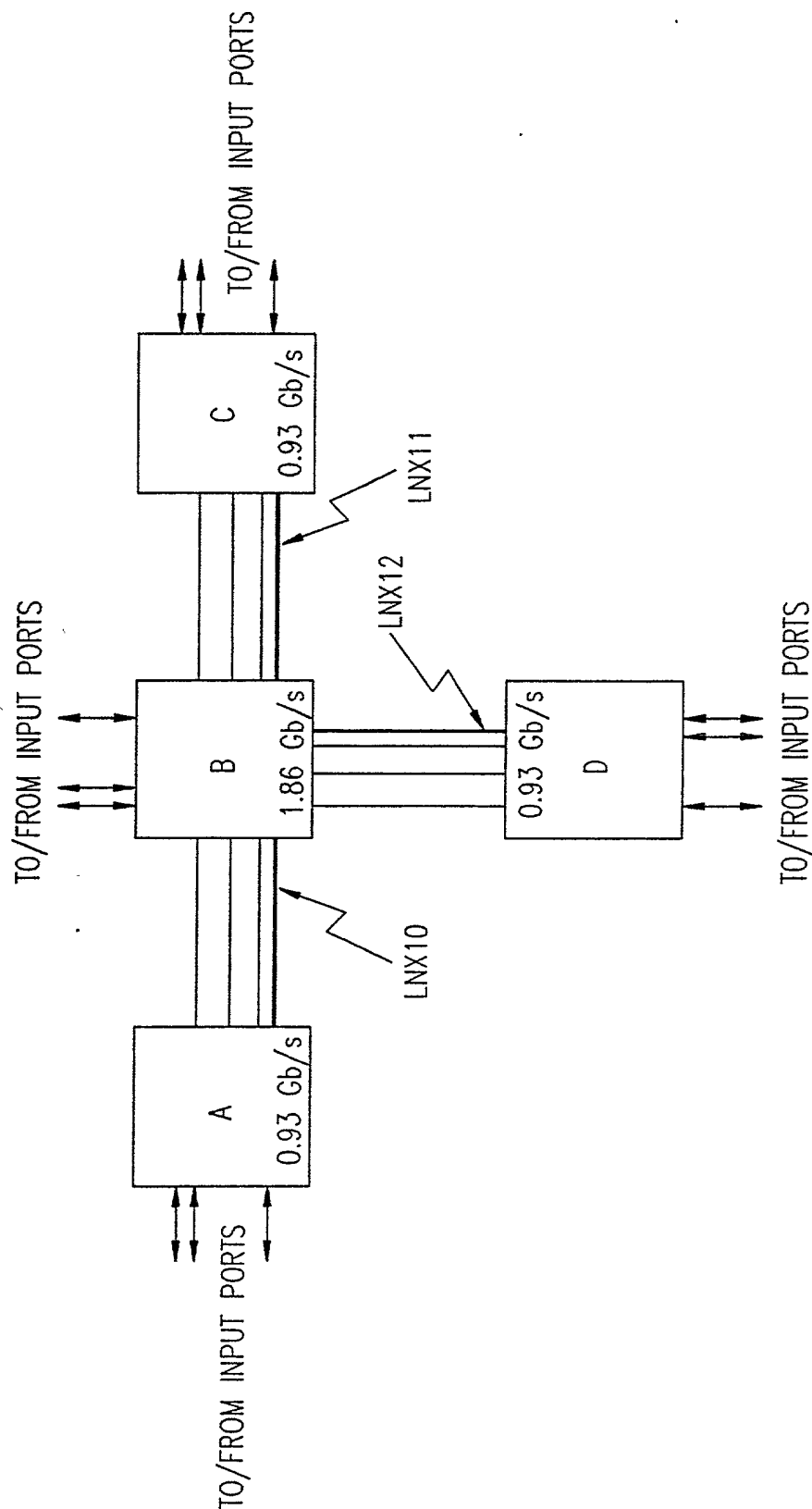


FIG. 21

	1	2	3	4	5	6	7
	Adjacent nodes	Link ID	Link capacity (Mb/s)	Link allocation (Mb/s)	Link Utilization (Mb/s)	Link state	Link priority
300	<i>A, B</i>	LN1	155	VPI=1(155)	100	A	1
310		LN2	155	VPI=2(155)	100	A	2
320		LN3	155	VPI=3(155)	100	A	3
		LNx10	155	VPI=4(0)	0	I	4
330	<i>C, B</i>	LN4	155	VPI=1(155)	100	A	1
340		LN5	155	VPI=2(155)	100	A	2
350		LN6	155	VPI=3(155)	100	A	3
		LNx11	155	VPI=4(0)	0	I	4
360	<i>D, B</i>	LN7	155	VPI=1(155)	100	A	1
370		LN8	155	VPI=2(155)	100	A	2
380		LN9	155	VPI=3(155)	100	A	3
		LNx12	155	VPI=4(0)	0	I	4

	1	2	3	4	5	6	7
	Adjacent nodes	Link ID	Link capacity (Mb/s)	Link allocation (Mb/s)	Link Utilization (Mb/s)	Link state	Link priority
300	A, B	LN1	155	VPI=1(155)	100	A	1
310		LN2	155	VPI=2(100)	100	A	2
320		LN3	155	VPI=3(100)	100	A	3
		LNx10	155	VPI=4(100)	100	A	4
330	C, B	LN4	155	VPI=1(155)	100	A	1
340		LN5	155	VPI=2(100)	100	A	2
350		LN6	155	VPI=3(100)	100	A	3
		LNx11	155	VPI=4(100)	100	A	4
360	D, B	LN7	155	VPI=1(155)	100	A	1
370		LN8	155	VPI=2(100)	100	A	2
380		LN9	155	VPI=3(100)	100	A	3
		LNx12	155	VPI=4(100)	100	A	4

FIG. 22

Node ID	Nonblocking Capacity (Gb/s)	Utilized Capacity (Gb/s)	Unused capacity (Gb/s)
A	0.93	0.92	0.03
B	1.86	1.83	0.03
C	0.93	0.92	0.03
D	0.93	0.92	0.03

FIG. 23

FIG. 24

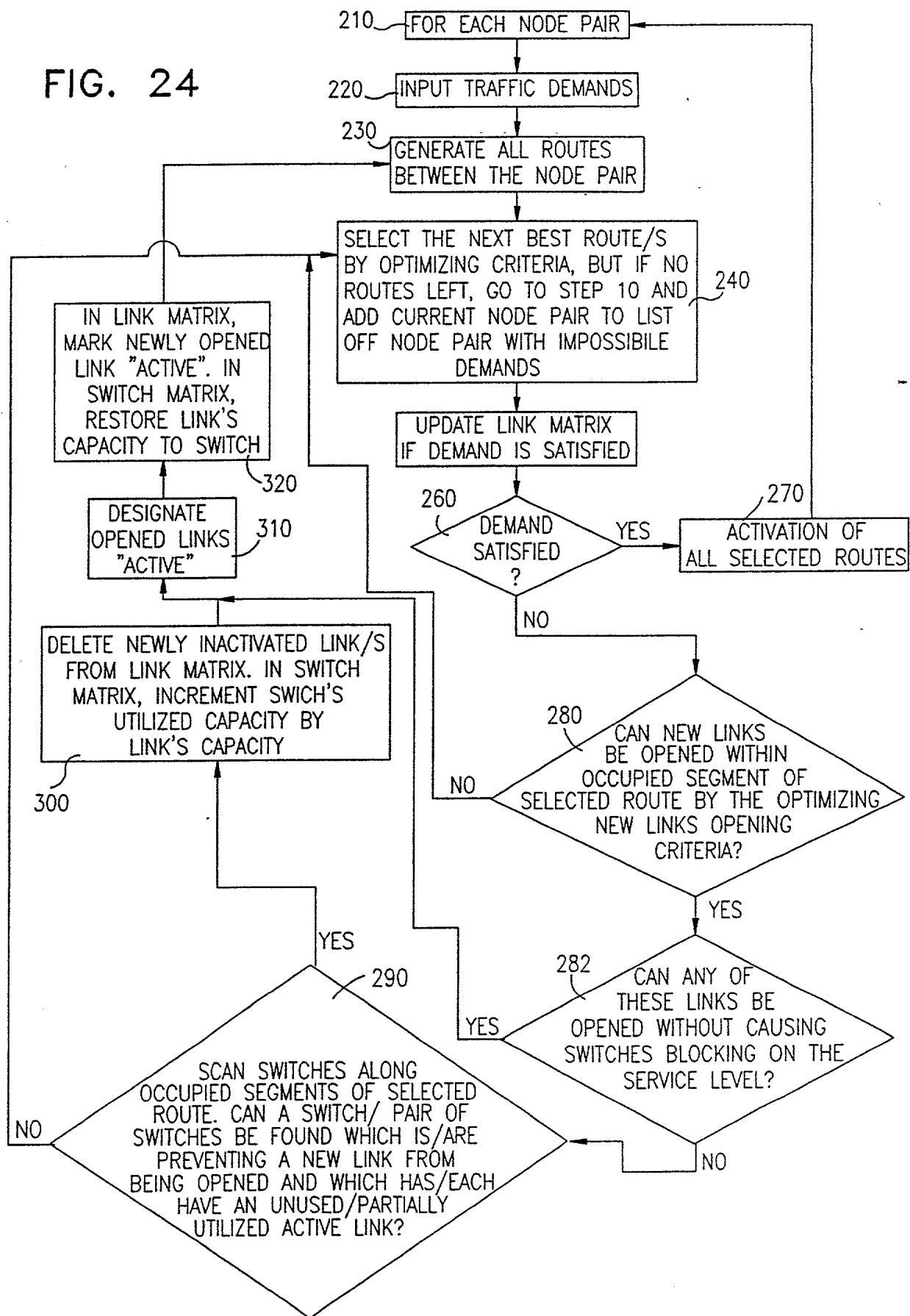


FIG. 25

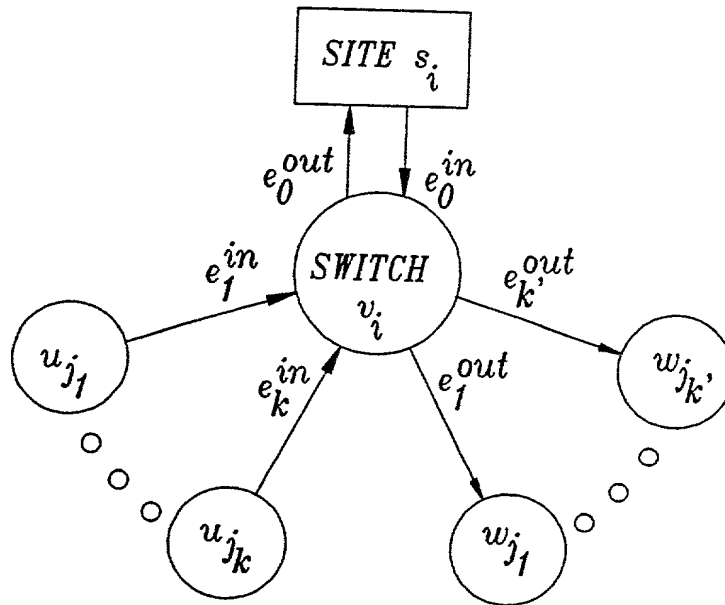


FIG. 26A

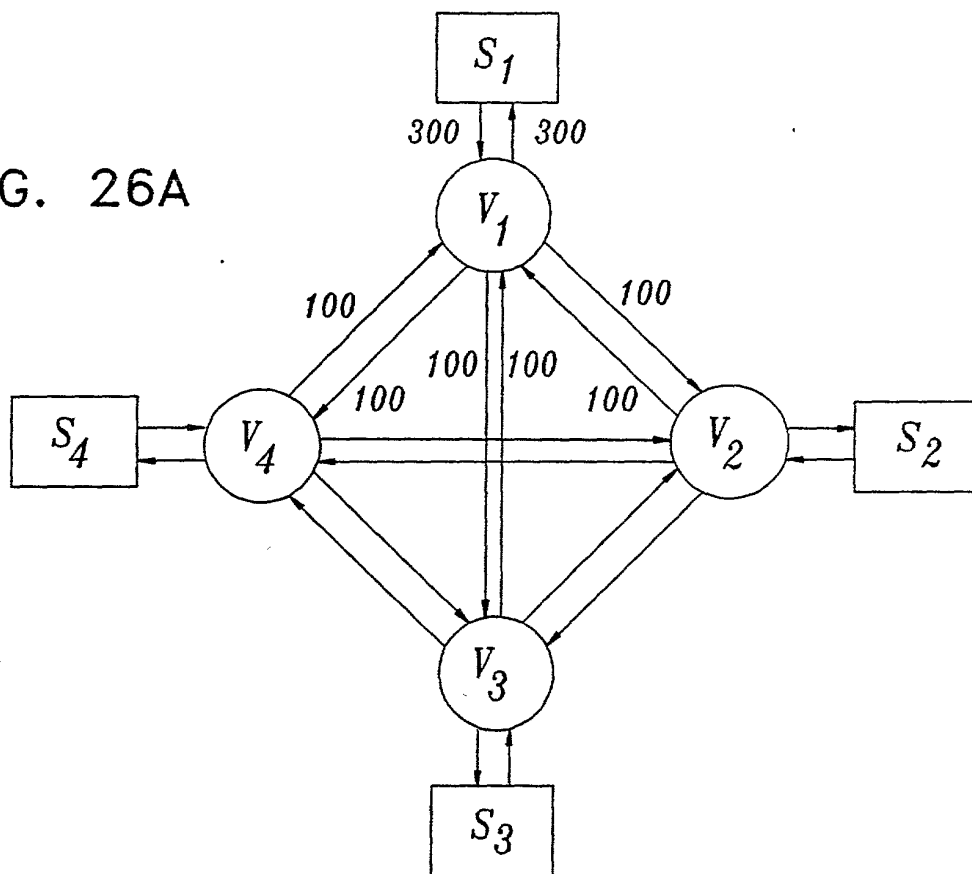


FIG. 26B

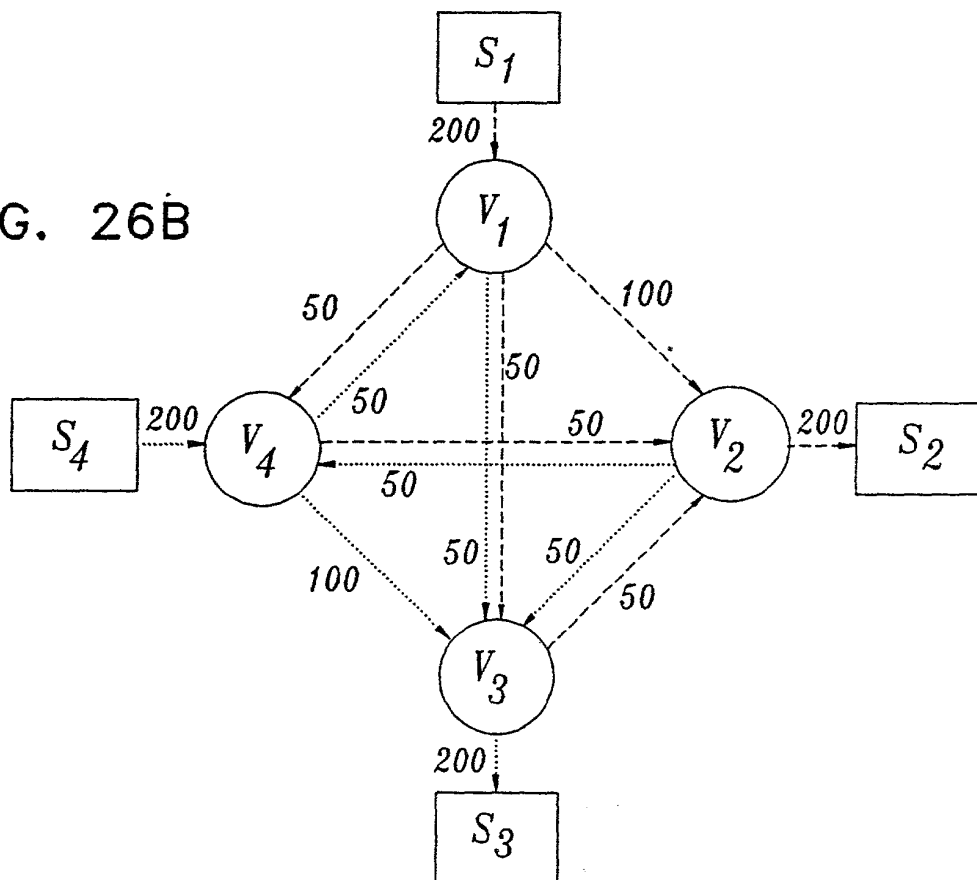


FIG. 27

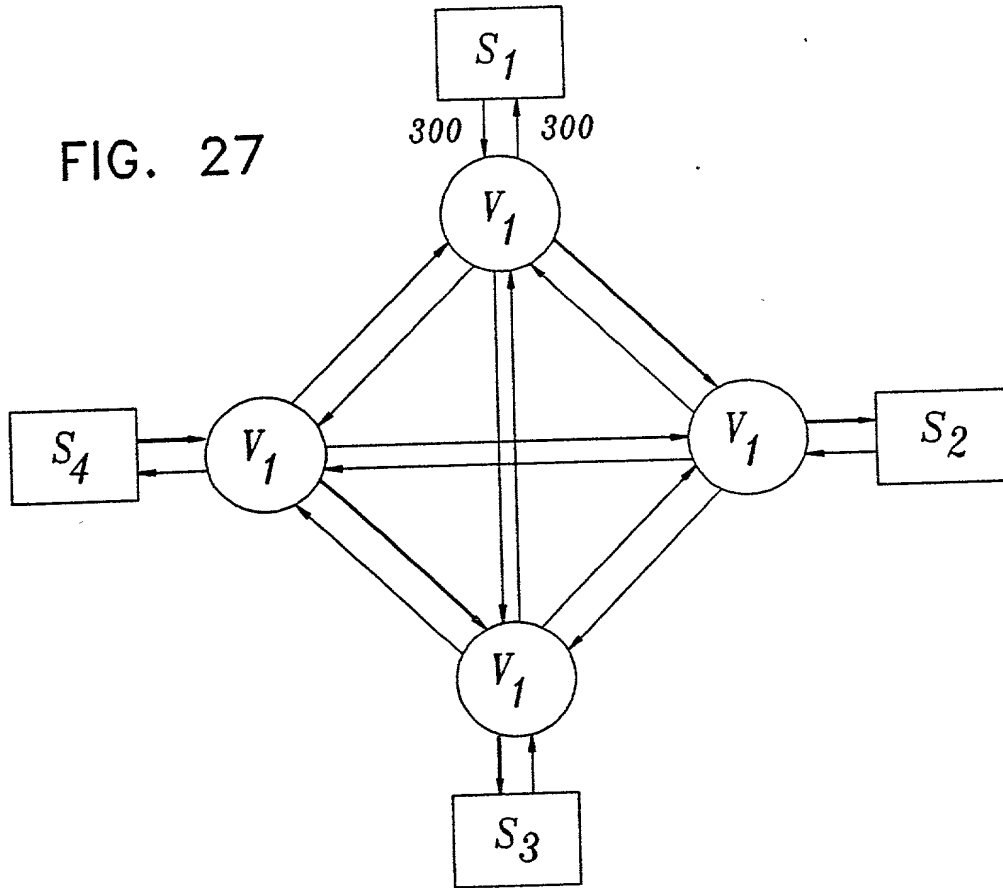


FIG. 28A

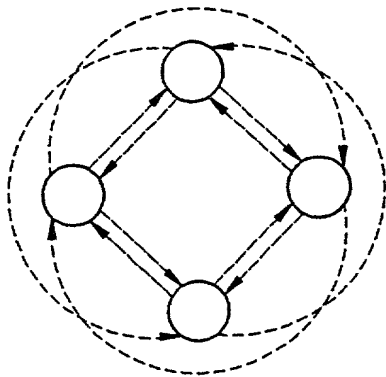


FIG. 28B

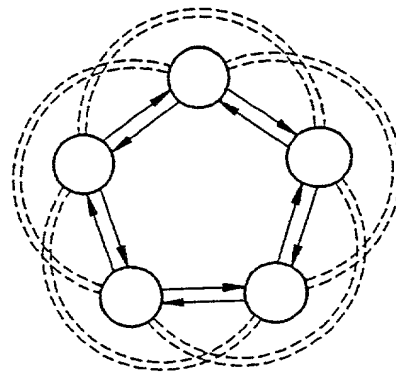


FIG. 29

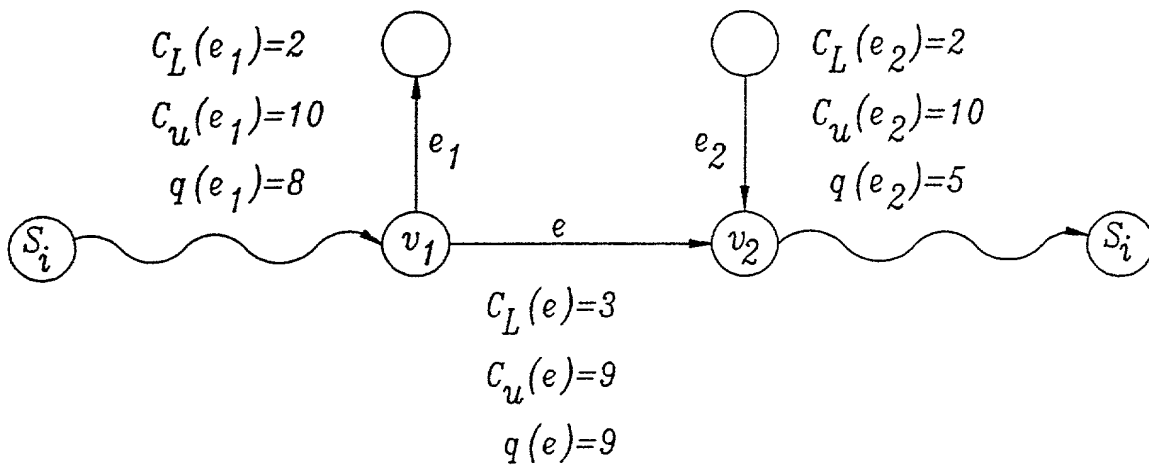
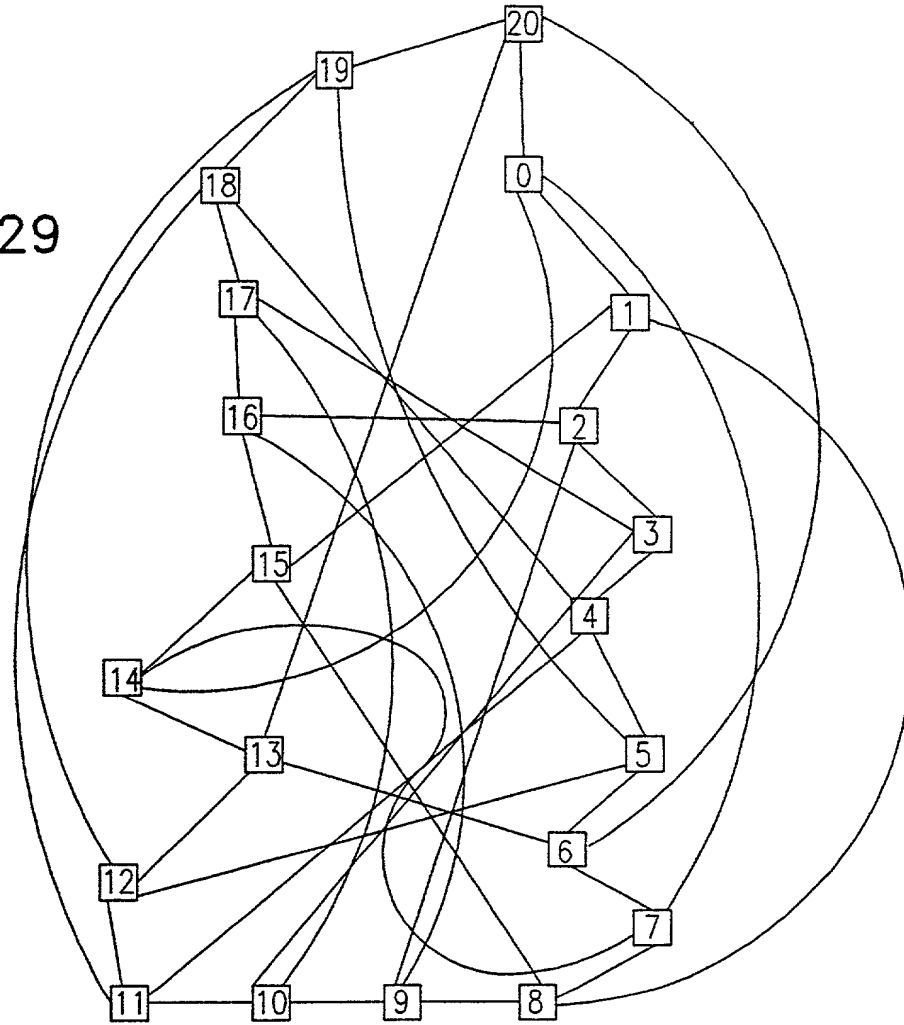


FIG. 30

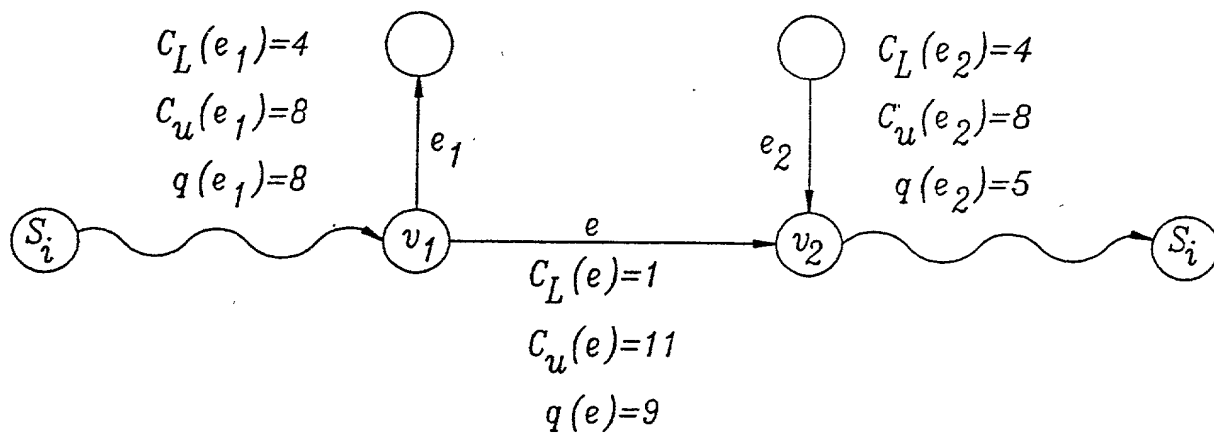


FIG. 31

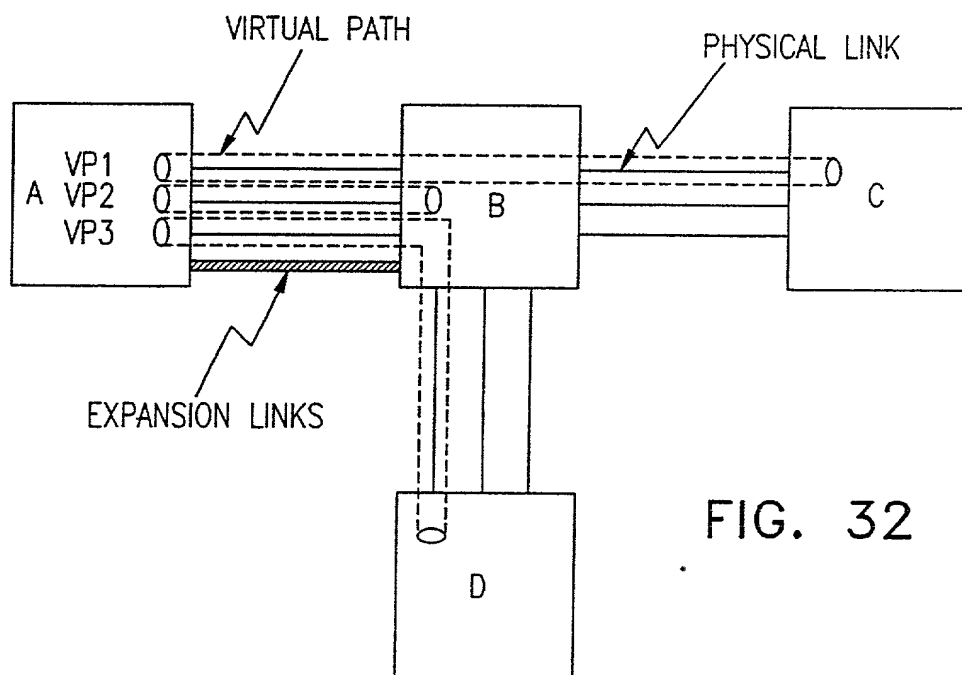


FIG. 32

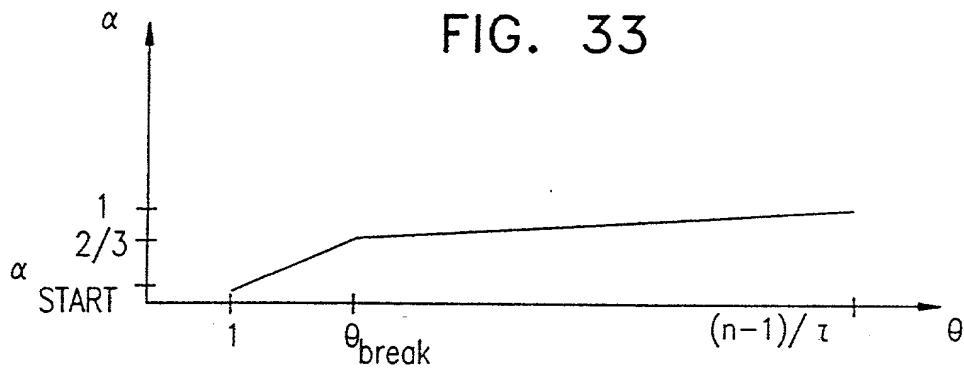


FIG. 33

FIG. 34

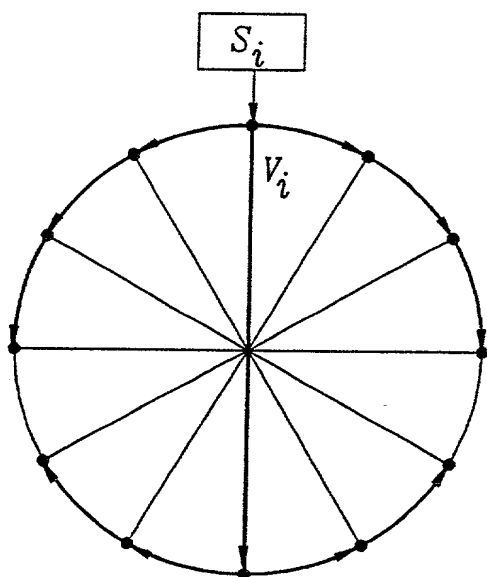
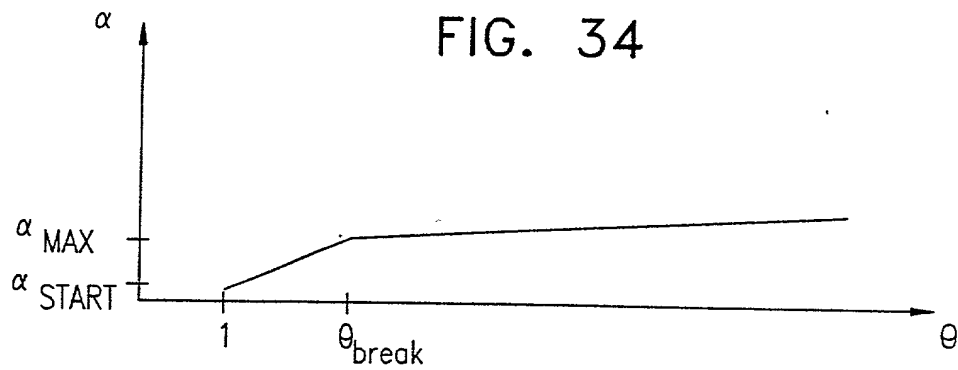


FIG. 35

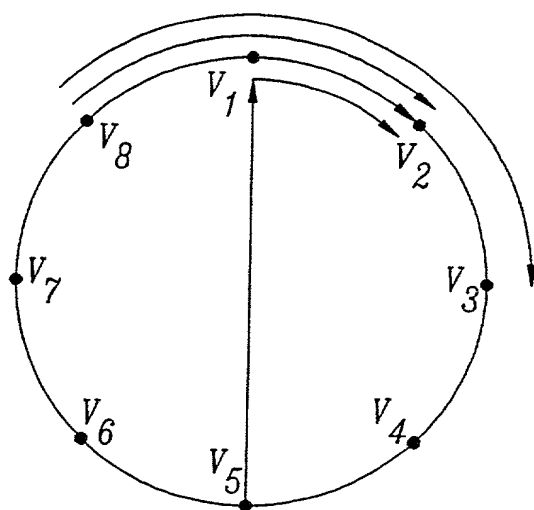


FIG. 36

FIG. 37

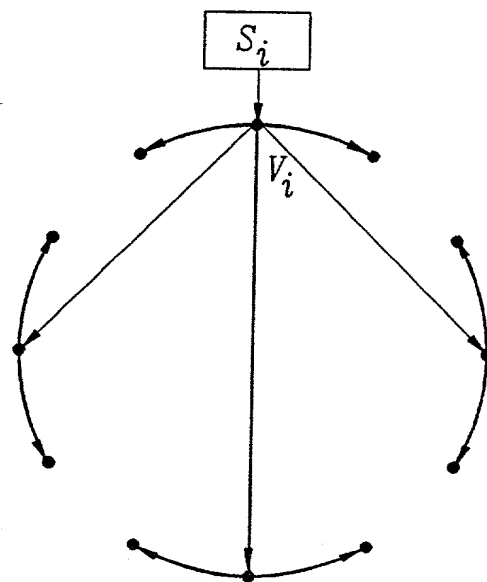


FIG. 38

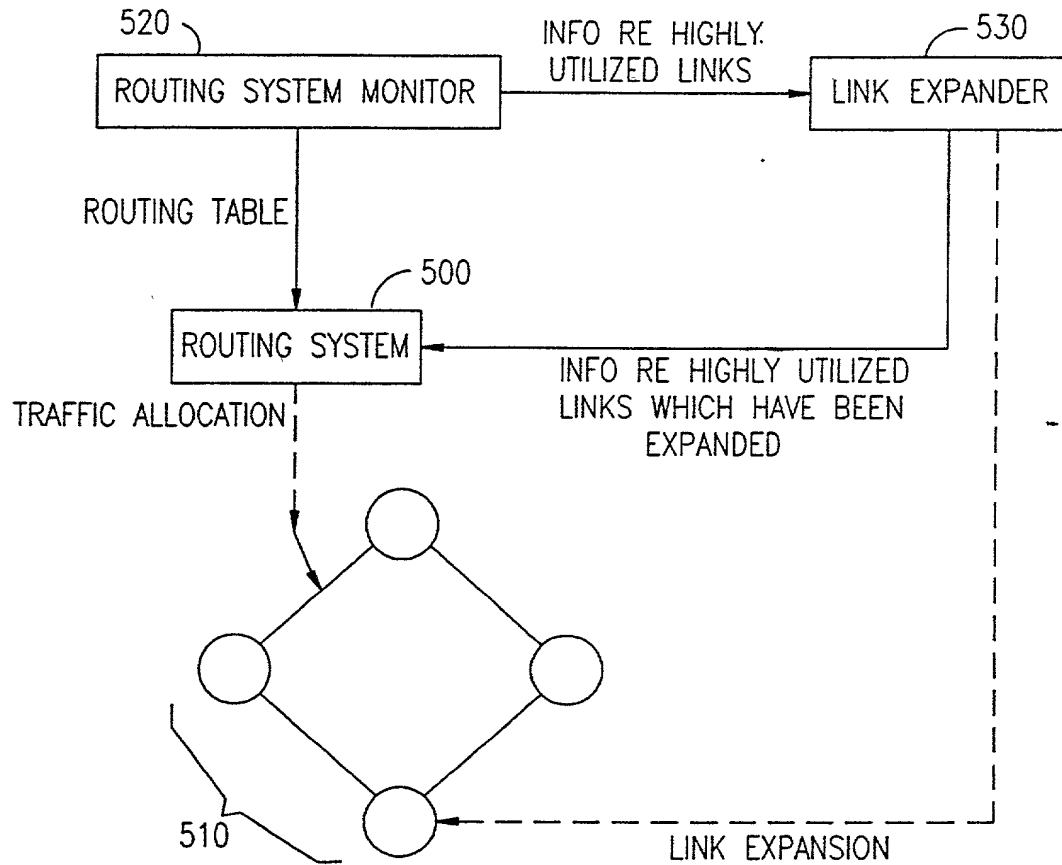


FIG. 39

